

Form PTO-1449 (Rev. 8-88)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.: 1307.65742	Serial No.: Div. of 08/690,038
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicant: Ishii et al.	
		Filing Date: July 31, 1996	Group: 2675

110400 09/96 S. PTO
09/28/01

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA	4,296,357	Oct. 20, 1981	Hirayama et al.			
	4,728,864	Mar. 1, 1988	Dick			
	4,737,687	Apr. 12, 1988	Shinoda et al.			
	5,081,400	Jan. 14, 1992	Weber et al.			
	5,107,182	Apr. 21, 1992	Sano et al.			
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	5,317,334	May 31, 1994	Sano			
	5,436,634	Jul. 25, 1995	Kanazawa			
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	5,453,660	Sep. 26, 1995	Martin et al.			
	5,656,893	Aug. 12, 1997	Shino et al.			
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FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
AA	61176035	Aug. 7, 1986	Japan			X	
AA	63131436	June 3, 1988	Japan			Abs.	
AA	63232238	Sep. 28, 1988	Japan			Abs.	
AA	02148645	June 7, 1990	Japan			X	
AA	2-220330	Sep. 3, 1990	Japan			Abs.	
AA	04312742	Nov. 4, 1992	Japan			Abs.	
AA	05002993	Jan. 8, 1993	Japan			Abs.	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AA	1996 National Convention Record I.E.E., Japan; March 10, 1996

Examiner <i>Amr Awad</i>	Date Considered <i>07-23-03</i>
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